

## INFORMATION DISCLOSURE STATEMENT

IN AN APPLICATION

(Use several sheets if necessary)

Docket Number:

12008.16US01

Application Number:

097034,422

Applicant: SAY ET AL.

Filing Date: 03/04/1998

Group Art Unit: 1623-1734

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JS	3,260,656	07/12/1966	Ross, Jr.			
	3,653,841	04/04/1972	Klein			
	3,719,564	03/06/1973	Lilly, Jr. et al.			
	3,776,832	12/04/1973	Oswin et al.			
	3,837,339	09/24/1974	Aisenberg et al.			
	3,926,760	12/16/1975	Allen et al.			
	3,972,320	08/03/1976	Kalman			
	3,979,274	09/07/1976	Newman			
	4,008,717	02/22/1977	Kowarski			
	4,016,866	04/12/1977	Lawton			
	4,055,175	10/25/1977	Clemens et al.			
	4,059,406	11/22/1977	Fleet			
	4,076,596	02/28/1978	Connery et al.			
	4,098,574	07/04/1978	Dappen			
	4,100,048	07/11/1978	Pompei et al.			
	4,151,845	05/01/1979	Clemens			
	4,168,205	09/18/1979	Danninger et al.			
	4,172,770	10/30/1979	Semersky et al.			
	4,178,916	12/18/1979	McNamara			
	4,206,755	06/10/1980	Klein			
	4,224,125	09/23/1980	Nakamura et al.			
	4,240,438	12/23/1980	Updike et al.			
	4,247,297	01/27/1981	Berti et al.			
	4,340,458	07/20/1982	Lerner et al.			
	4,352,960	10/05/1982	Dormer et al.			
	4,356,074	10/26/1982	Johnson			
	4,365,637	12/28/1982	Johnson			
	4,366,033	12/28/1982	Richter et al.			
JS	4,375,399	03/01/1983	Havas et al.			

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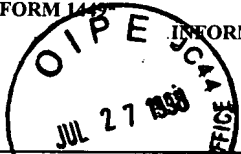
EXAMINER

James Sells

DATE CONSIDERED

1-14-00

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<b>FORM 1449</b>  <b>INFORMATION DISCLOSURE STATEMENT</b> <b>IN AN APPLICATION</b> (Use several sheets if necessary)	Docket Number: 12008.16US01	Application Number: 09/034,422
	Applicant: SAY ET AL.	
	Filing Date: 03/04/1998	Group Art Unit: <del>1623</del> 1734

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DS	4,384,586	05/24/1983	Christiansen			
	4,390,621	06/28/1983	Bauer			
	4,401,122	08/30/1983	Clark, Jr.			
	4,404,066	09/13/1983	Johnson			
	4,418,148	11/29/1983	Oberhardt			
	4,427,770	01/24/1984	Chen et al.			
	4,431,004	02/14/1984	Bessman et al.			
	4,436,094	03/13/1984	Cerami			
	4,440,175	04/03/1984	Wilkins			
	4,450,842	05/29/1984	Zick et al.			
	4,458,686	07/10/1984	Clark, Jr.			
	4,461,691	07/24/1984	Frank			
	4,469,110	09/04/1984	Slama			
	4,477,314	10/16/1984	Richter et al.			
	4,484,987	11/27/1984	Gough			
	4,522,690	06/11/1985	Venkatesetty			
	4,524,114	06/18/1985	Samuels et al.			
	4,526,661	07/02/1985	Steckhan et al.			
	4,534,356	08/13/1985	Papadakis			
	4,538,616	09/03/1985	Rogoff			
	4,543,955	10/01/1985	Schroepfel			
	4,545,382	10/08/1985	Higgins et al.			
	4,552,840	11/12/1985	Riffer			
	4,560,534	12/24/1985	Kung et al.			
	4,571,292	02/18/1986	Liu et al.			
	4,573,994	03/04/1986	Fischell et al.			
	4,581,336	04/08/1986	Malloy et al.			
	4,595,011	06/17/1986	Phillips			
DS	4,619,754	10/28/1986	Niki et al.			

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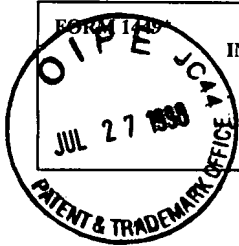
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DS	4,627,445	12/09/1986	Garcia et al.	_____	_____	
	4,627,908	12/09/1986	Miller	_____	_____	
	4,633,878	01/06/1987	Bombardieri	_____	_____	
	4,637,403	01/20/1987	Garcia et al.	_____	_____	
	4,650,547	03/17/1987	Gough	_____	_____	
	4,654,197	03/31/1987	Lilja et al.	_____	_____	
	4,655,880	04/07/1987	Liu	_____	_____	
	4,655,885	04/07/1987	Hill et al.	_____	_____	
	4,671,288	06/09/1987	Gough	_____	_____	
	4,679,562	07/14/1987	Luksha	_____	_____	
	4,680,268	07/14/1987	Clark, Jr.	_____	_____	
	4,682,602	07/28/1987	Prohaska	_____	_____	
	4,684,537	08/04/1987	Graetzel et al.	_____	_____	
	4,685,463	08/11/1987	Williams	_____	_____	
	4,703,756	11/03/1987	Gough et al.	_____	_____	
	4,711,245	12/08/1987	Higgins et al.	_____	_____	
	4,717,673	01/05/1988	Wrighton et al.	_____	_____	
	4,721,601	01/26/1988	Wrighton et al.	_____	_____	
	4,721,677	01/26/1988	Clark, Jr.	_____	_____	
	4,726,378	02/23/1988	Kaplan	_____	_____	
	4,726,716	02/23/1988	McGuire	_____	_____	
	4,757,022	07/12/1988	Shults et al.	_____	_____	
	4,758,323	07/19/1988	Davis et al.	_____	_____	
	4,759,371	07/26/1988	Franetzki	_____	_____	
	4,759,828	07/26/1988	Young et al.	_____	_____	
	4,764,416	08/16/1988	Ueyama et al.	_____	_____	
	4,776,944	10/11/1988	Janata et al.	_____	_____	
	4,781,798	11/01/1988	Gough	_____	_____	
DS	4,784,736	11/15/1988	Lonsdale et al.	_____	_____	

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Group Art Unit: ~~1623~~ 1734

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DS	4,795,707	01/03/1989	Niiyama et al.			
	4,796,634	01/10/1989	Huntsman et al.			
	4,805,624	02/21/1989	Yao et al.			
	4,813,424	03/21/1989	Wilkins			
	4,815,469	03/28/1989	Cohen et al.			
	4,820,399	04/11/1989	Senda et al.			
	4,822,337	04/18/1989	Newhouse et al.			
	4,830,959	05/16/1989	McNeil et al.			
	4,832,797	05/23/1989	Vadgama et al.			
	Re. 32,947	06/13/1989	Dormer et al.			
	4,840,893	06/20/1989	Hill et al.			
	4,848,351	07/18/1989	Finch			
	4,871,351	10/03/1989	Feingold			
	4,871,440	10/03/1989	Nagata et al.			
	4,874,500	10/17/1989	Madou et al.			
	4,890,620	01/02/1990	Gough			
	4,894,137	01/16/1990	Takizawa et al.			
	4,897,162	01/30/1990	Lewandowski et al.			
	4,897,173	01/30/1990	Nankai et al.			
	4,909,908	03/20/1990	Ross et al.			
	4,911,794	03/27/1990	Parce et al.			
	4,917,800	04/17/1990	Lonsdale et al.			
	4,919,141	04/24/1990	Zier et al.			
	4,919,767	04/24/1990	Vadgama et al.			
	4,923,586	05/08/1990	Katayama et al.			
	4,927,516	05/22/1990	Yamaguchi et al.			
	4,934,369	06/19/1990	Maxwell			
DS	4,935,105	06/19/1990	Churchouse			

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FORM 1449\*

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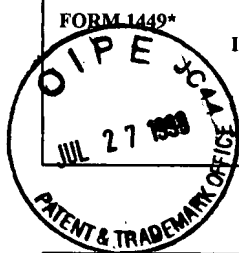
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Filing Date: 03/04/1998

Group Art Unit: 1625 1734



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DS	4,935,345	06/19/1990	Guilbeau et al.			
	4,938,860	07/03/1990	Wogoman			
	4,944,299	07/31/1990	Silvian			
	4,950,378	08/21/1990	Nagata			
	4,953,552	09/04/1990	DeMarzo			
	4,954,129	09/04/1990	Giuliani et al.			
	4,969,468	11/13/1990	Byers et al.			
	4,970,145	11/13/1990	Bennetto et al.			
	4,974,929	12/04/1990	Curry			
	4,986,271	01/22/1991	Wilkins			
	4,994,167	02/19/1991	Shults et al.			
	5,001,054	03/19/1991	Wagner			
	5,058,592	10/22/1991	Whisler			
	5,070,535	12/03/1991	Hochmair et al.			
	5,082,550	01/21/1992	Rishpon et al.			
	5,082,786	01/21/1992	Nakamoto			
	5,089,112	02/18/1992	Skotheim et al.			
	5,095,904	03/17/1992	Seligman et al.			
	5,101,814	04/07/1992	Palti			
	5,108,564	04/28/1992	Szuminsky et al.			
	5,109,850	05/05/1992	Blanco et al.			
	5,120,420	06/09/1992	Nankai et al.			
	5,126,034	06/30/1992	Carter et al.			
	5,133,856	07/28/1992	Yamaguchi et al.			
	5,135,003	08/04/1992	Souma			
	5,141,868	08/25/1992	Shanks et al.			
	5,161,532	11/10/1992	Joseph			
DS	5,165,407	11/24/1992	Wilson et al.			

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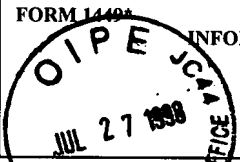
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FORM 1449a  INFORMATION DISCLOSURE STATEMENT  IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 12008.16US01	Application Number: 09/034,422
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JS	5,174,291	12/29/1992	Schoonen et al.			
	5,190,041	03/02/1993	Palti			
	5,192,416	03/09/1993	Wang et al.			
	5,198,367	03/30/1993	Aizawa et al.			
	5,202,261	04/13/1993	Musho et al.			
	5,205,920	04/27/1993	Oyama et al.			
	5,208,154	05/04/1993	Weaver et al.			
	5,209,229	05/11/1993	Gilli			
	5,217,595	06/08/1993	Smith et al.			
	5,229,282	07/20/1993	Yoshioka et al.			
	5,250,439	10/05/1993	Musho et al.			
	5,262,035	11/16/1993	Gregg et al.			
	5,262,305	11/16/1993	Heller et al.			
	5,264,103	11/23/1993	Yoshioka et al.			
	5,264,104	11/23/1993	Gregg et al.			
	5,264,106	11/23/1993	McAleer et al.			
	5,271,815	12/21/1993	Wong			
	5,279,294	01/18/1994	Anderson et al.			
	5,286,362	02/15/1994	Hoernes et al.			
	5,286,364	02/15/1994	Yacynych et al.			
	5,288,636	02/22/1994	Pollmann et al.			
	5,293,546	03/08/1994	Tadros et al.			
	5,320,098	06/14/1994	Davidson			
	5,320,725	06/14/1994	Gregg et al.			
	5,322,063	06/21/1994	Allen et al.			
	5,337,747	08/16/1994	Neftel			
	5,352,348	10/04/1994	Young et al.			
	5,356,786	10/18/1994	Heller et al.			
	5,368,028	11/29/1994	Palti			

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EXAMINER	James Sells	DATE CONSIDERED	1-14-00
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FORM 1449\*

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Group Art Unit: ~~1623~~ 1739

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DS	5,372,133	12/13/1994	Hogen Esch			
	5,376,251	12/27/1994	Kaneko et al.			
	5,378,628	01/03/1995	Grätzel et al.			
	5,387,327	02/07/1995	Khan			
	5,390,671	02/21/1995	Lord et al.			
	5,391,250	02/21/1995	Cheney, II et al.			
	5,395,504	03/07/1995	Saurer et al.			
	5,411,647	05/02/1995	Johnson et al.			
	5,437,999	08/01/1995	Diebold et al.			
	5,469,846	11/28/1995	Khan			
	5,494,562	02/27/1996	Maley et al.			
	5,496,453	03/05/1996	Uenoyama et al.			
	5,497,772	03/12/1996	Schulman et al.			
	5,531,878	07/02/1996	Vadgama et al.			
	5,545,191	08/13/1996	Mann et al.			
	5,560,357	10/01/1996	Faupel et al.			
	5,565,085	10/15/1996	Ikeda et al.			
	5,567,302	10/22/1996	Song et al.			
	5,568,806	10/29/1996	Cheney, II et al.			
	5,569,186	10/29/1996	Lord et al.			
	5,582,184	12/10/1996	Erickson et al.			
	5,582,697	12/10/1996	Ikeda et al.			
	5,582,698	12/10/1996	Flaherty et al.			
	5,586,553	12/24/1996	Halili et al.			
	5,589,326	12/31/1996	Deng et al.			
	5,593,852	01/14/1997	Heller et al.			
	5,596,150	01/21/1997	Arndt et al.			
	5,617,851	04/08/1997	Lipkovker			
DS	5,628,890	05/13/1997	Carter et al.			

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EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DS	5,651,869	07/29/1997	Yoshioka et al.			
	5,660,163	08/26/1997	Schulman et al.			
	5,670,031	09/23/1997	Hintsche et al.			
	5,680,858	10/28/1997	Hansen et al.			
	5,682,233	10/28/1997	Brinda			
	5,695,623	12/09/1997	Michel et al.			
	5,708,247	01/13/1998	McAleer et al.			
	5,711,861	01/27/1998	Ward et al.			
	5,711,862	01/27/1998	Sakoda et al.			
DS	5,741,211	04/21/1998	Renirie et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
DS	29 03 216	08/02/1979	DE			Abstract	
	227 029 A3	09/04/1985	DD (East Germany)			Abstract	
	3934299	10/25/1990	DE (Abstract only)				
	0 010 375 A1	04/30/1980	EP			X	
	0 026 995 A1	04/15/1981	EP			X	
	0 048 090 A2	03/24/1982	EP			X	
	0 078 636 A1	05/11/1983	EP			X	
	0 096 288 A1	12/21/1983	EP				X
	0 125 139 A2	11/14/1984	EP			X	
	0 127 958 A2	12/12/1984	EP			X	
	0 136 362 A1	04/10/1985	EP			X	
	0 170 375 A2	02/05/1986	EP				
	0 177 743 A2	04/16/1986	EP (Abstract only)				
DS	0 080 304 B1	05/21/1986	EP				

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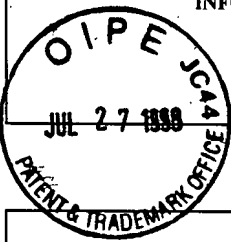
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	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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85	0 184 909 A2	06/18/1986	EP			X	
	0 206 218 A2	12/30/1986	EP			X	
	0 230 472 A1	08/05/1987	EP			X	
	0 241 309 A3	10/14/1987	EP			X	
	0 245 073 A2	11/11/1987	EP			X	
	0 255 291 B1	06/24/1992	EP			X	
	0 278 647 A2	08/17/1988	EP			X	
	0 359 831 A1	03/28/1990	EP			X	
	0 368 209 A1	05/16/1990	EP			X	
	0 390 390 A1	10/03/1990	EP			X	
	0 400 918 A1	12/05/1990	EP			X	
	0 453 283 A1	10/23/1991	EP			X	
	0 470 290 A1	02/12/1992	EP			Abstract	
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	1394171	05/14/1975	GB (Abstract only)				
	1599241 A	09/30/1981	GB (Abstract only)				
	2 073 891 A	10/21/1981	GB				
	2 154 003 B	02/17/1988	GB				
	2 204 408 A	11/09/1988	GB				
	2 254 436 A	10/07/1992	GB				
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	55-10583	01/25/1980	JP			Abstract	
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	57-70448	04/30/1982	JP			Abstract	
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	61-90050	05/08/1986	JP			Abstract	
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	63-58149	03/12/1988	JP			Abstract	
	63-128252	05/31/1988	JP			Abstract	
	63-139246	06/11/1988	JP			Abstract	
	63-294799	12/01/1988	JP			Abstract	
	63-317757	12/26/1988	JP			Abstract	
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	1-156658	06/20/1989	JP			Abstract	
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	2-120655	05/08/1990	JP			Abstract	
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	3-26956	02/05/1991	JP			Abstract	
	3-28752	02/06/1991	JP (Abstract only)				
	3-202764	09/04/1991	JP			Abstract	
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FORM 1449 <b>INFORMATION DISCLOSURE STATEMENT</b> IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 12008.16US01	Application Number: 09/034,422
	Applicant: SAY ET AL.	
	Filing Date: 03/04/1998	Group Art Unit: <del>1625</del> 1734

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
DS	WO 89/08713	09/21/1989	PCT			X	
	WO 90/05300	05/17/1990	PCT			X	
	WO 90/05910	05/31/1990	PCT			X	
	WO 91/01680	02/21/1991	PCT			X	
	WO 91/04704	04/18/1991	PCT			Abstract	
	WO 91/15993	10/31/1991	PCT			X	
	WO 92/13271	08/06/1992	PCT			X	
	WO 94/20602	09/15/1994	PCT			X	
	WO 94/27140	11/24/1994	PCT			X	
	WO 96/30431	10/03/1996	PCT			X	
	WO 97/02847	01/30/1997	PCT			Abstract	
	WO 97/19344	05/29/1997	PCT			X	
	WO 97/42882	11/20/1997	PCT			X	
	WO 97/42883	11/20/1997	PCT			X	
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FORM 1449\*

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IN AN APPLICATION

(Use several sheets if necessary)

Docket Number:

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Applicant: SAY ET AL.

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Group Art Unit: 1623 1734



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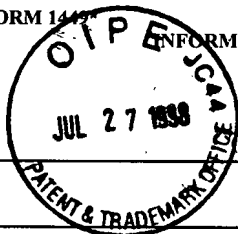
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	Filing Date: 03/04/1998	Group Art Unit: <u>1623</u> <u>1734</u>



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Group Art Unit: 1625 / 1734

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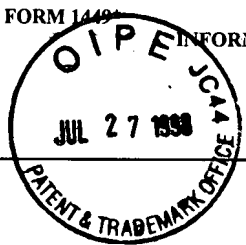
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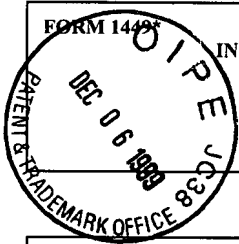


FORM 1449 JUL 27 1998 PATENT & TRADEMARK OFFICE	INFORMATION DISCLOSURE STATEMENT	
	IN AN APPLICATION	
	(Use several sheets if necessary)	
Docket Number:	12008.16US01	Application Number:
Applicant: SAY ET AL.		09/034,422
Filing Date: 03/04/1998	Group Art Unit: <del>1623</del> 1734	

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EXAMINER	James Sells	DATE CONSIDERED	1-14-00
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## INFORMATION DISCLOSURE STATEMENT

## IN AN APPLICATION

(Use several sheets if necessary)

Docket Number:

12008.16US01

Application Number:

09/034,422

Applicant: SAY ET AL.

Filing Date: 03/04/1998

Group Art Unit: 1734

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
DS	7-55757 A	03/03/1995	JP			Abstract	
DS	8-285815 A ✓	11/01/1996	JP			Abstract	
DS	8-285814 A ✓	11/01/1996	JP			Abstract	
DS	9-21778 A ✓	01/21/1997	JP			X	
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DS	9-101280 A ✓	04/15/1997	JP			Abstract	
DS	10-170471 A ✓	06/26/1998	JP			Abstract	

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Sheet 1 of 1

<b>FORM 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b> <b>IN AN APPLICATION</b> (Use several sheets if necessary)	Docket Number: 12008.16US01	Application Number: 09/034,422
	Applicant: SAY ET AL.	
	Filing Date: 03/04/1998	Group Art Unit: 1625/1734

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JS	3,911,901	10/14/1975	Niedrach et al.	128	2 E	

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EXAMINER INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
JS	0 193 676 A1 ✓	09/10/1986	EP				

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<b>FORM 1449a</b> <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b>  (Use several sheets if necessary)	Docket Number: 12008.16US01	Application Number: 09/034,422
	Applicant: SAY ET AL.	
	Filing Date: 03/04/1998	Group Art Unit: <u>1625 1734</u>

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EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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<u>DS</u>	5,840,020	11/24/1998	Heinonen et al.	<u>600</u>	<u>309</u>	

## FOREIGN PATENT DOCUMENTS

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